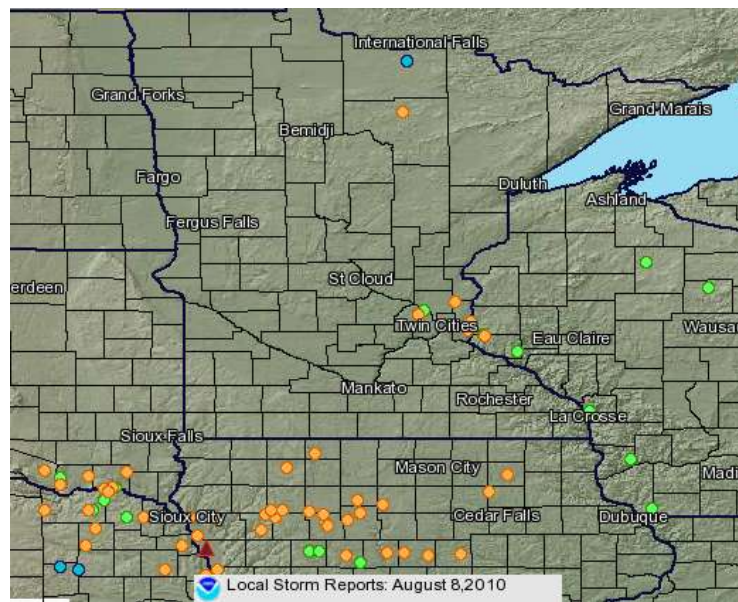
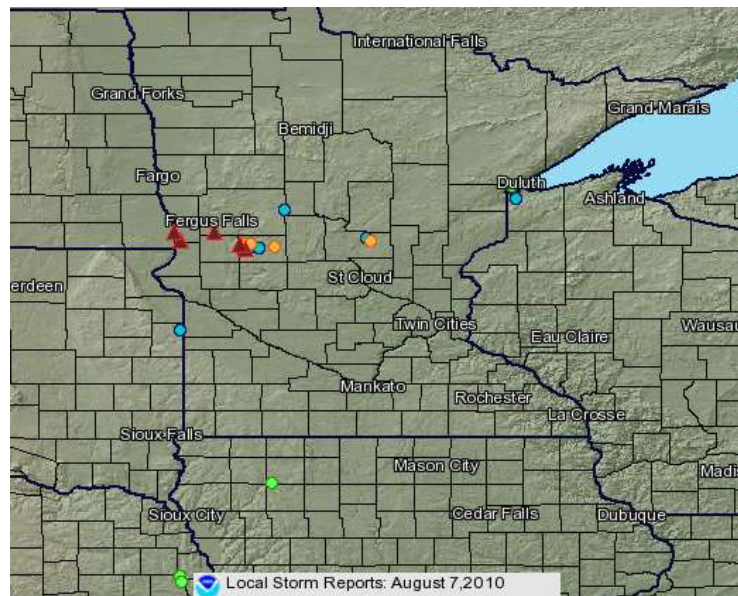


## August 7-8, 2010: Wind Damage and Isolated Tornadoes Across Central Minnesota and West Central Wisconsin

Severe weather impacted parts of the region during the evening of August 7th into the early morning hours of the 8th, then again later on the evening of the 8th. Very warm and humid air combined with moderate wind shear to set the stage for the severe weather, while an upper level weather disturbance and warm front helped to generate the storms. Saturday's setup was more conducive for supercells and tornadoes, while Sunday evolved into more of a downburst and heavy rain threat. Initial storm reports are noted on the maps below, with a text listing below, followed by the NWS damage survey results.



## Text Listing of Storm Reports

### August 7th and Early August 8th

PRELIMINARY LOCAL STORM REPORT...SUMMARY  
NATIONAL WEATHER SERVICE TWIN CITIES/CHANHASSEN MN  
1217 AM CDT MON AUG 09 2010

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	....MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0720 PM 08/07/2010	FUNNEL CLOUD	1 ENE BERTHA TODD MN	46.27N 95.04W TRAINED SPOTTER
0803 PM 08/07/2010	HAIL M1.00 INCH	4 NW LASTRUP MORRISON MN	46.08N 94.12W TRAINED SPOTTER
0803 PM 08/07/2010	TORNADO	3 W EVANSVILLE DOUGLAS MN	46.01N 95.75W NWS STORM SURVEY

AN NWS STORM DAMAGE SURVEY FROM THE OFFICE IN GRAND FORKS DETERMINED THAT AN EF-1 TORNADO TOUCHED DOWN IN GRANT COUNTY AND PRODUCED INTERMITTENT DAMAGE EASTWARD INTO DOUGLAS COUNTY. DAMAGE IN DOUGLAS COUNTY WAS TREE DAMAGE. TOTAL PATH LENGTH WAS ABOUT 19 MILES...APPROXIMATELY THREE AND A HALF MILES IN DOUGLAS COUNTY. TIME AND LOCATION ARE ESTIMATES OF WHEN THE TORNADO CROSSED INTO DOUGLAS COUNTY.

0812 PM 08/07/2010	TSTM WND DMG	EVANSVILLE DOUGLAS MN	46.01N 95.68W FIRE DEPT/RESCUE
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MOST OF THE CITY LOST POWER.

0812 PM 08/07/2010	FUNNEL CLOUD	5 SW BERTHA TODD MN	46.21N 95.14W EMERGENCY MNGR
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NEAR COUNTY RD 22 AND COUNTY RD 1

0817 PM 08/07/2010	TSTM WND DMG	3 N BRANDON DOUGLAS MN	46.01N 95.60W LAW ENFORCEMENT
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TREES AND POWER LINES DOWN.

0820 PM 08/07/2010	HAIL M1.00 INCH	1 E BRANDON DOUGLAS MN	45.97N 95.58W FIRE DEPT/RESCUE
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0823 PM 08/07/2010	FUNNEL CLOUD	13 N ALEXANDRIA DOUGLAS MN	46.06N 95.38W FIRE DEPT/RESCUE
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FUNNEL CLOUD SIGHTED OVER NORTH END OF LAKE MILTONA.

0823 PM 08/07/2010	FUNNEL CLOUD	5 NW ALEXANDRIA DOUGLAS MN	45.93N 95.45W FIRE DEPT/RESCUE
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OCCURRED 8 MILES SOUTHWEST OF LAKE MILTONA.

0826 PM FUNNEL CLOUD 7 W ALEXANDRIA 45.87N 95.52W  
08/07/2010 DOUGLAS MN FIRE DEPT/RESCUE

0837 PM FUNNEL CLOUD ALEXANDRIA 45.87N 95.38W  
08/07/2010 DOUGLAS MN LAW ENFORCEMENT

OCCURRED IN NORTHERN PORTION OF CITY.

0841 PM HAIL GARFIELD 45.94N 95.49W  
08/07/2010 M1.00 INCH DOUGLAS MN TRAINED SPOTTER

0846 PM TSTM WND GST CARLOS 45.97N 95.29W  
08/07/2010 E70.00 MPH DOUGLAS MN LAW ENFORCEMENT

0903 PM HAIL 4 NW LASTRUP 46.08N 94.12W  
08/07/2010 M1.00 INCH MORRISON MN TRAINED SPOTTER

1005 PM TSTM WND GST LASTRUP 46.04N 94.06W  
08/07/2010 M59.00 MPH MORRISON MN MESONET

OCCURRED AT MILE POST 140.

1023 PM TSTM WND DMG ST JOSEPH 45.57N 94.32W  
08/07/2010 STEARNS MN TRAINED SPOTTER

15 INCH DIAMETER HEALTHY TREE PULLED OUT BY ROOTS. ALSO  
NOTED 3/4 INCH HAIL AS WELL.

1030 PM TSTM WND DMG MILACA 45.76N 93.65W  
08/07/2010 MILLE LACS MN TRAINED SPOTTER

PATIO AWNING BLOWN AWAY. PORT-A-POTTIES BLOWN OVER. TWO  
TO THREE INCH DIAMETER TREE LIMB TWENTY INCHES LONG  
SEVERED. PART OF NORTHERN PORTION OF CITY LOST POWER.

1200 AM TSTM WND DMG 6 E LUCK 45.58N 92.34W  
08/08/2010 POLK WI EMERGENCY MNGR

3 HOMES DAMAGED IN BONE LAKE TOWNSHIP. ALSO 1 PERSON  
INJURED DO TO FLYING GLASS REQUIRING SEVERAL STITCHES.

1200 AM TSTM WND DMG CUMBERLAND 45.54N 92.02W  
08/08/2010 BARRON WI LAW ENFORCEMENT

NUMEROUS TREES DOWN IN CUMBERLAND...ALONG WITH THE  
NORTHERN HALF OF BARRON COUNTY.

1200 AM TSTM WND DMG 6 E LUCK 45.57N 92.35W  
08/08/2010 POLK WI PUBLIC

OUT BUILDINGS DOWN. SIDING AND WINDOWS OFF HOUSE. THIS  
LOCATION WAS IN ABOUT THE MIDDLE OF A ONE HALF MILE LONG  
AND 100 YARD WIDE PATH OF SCATTERED DAMAGE. OTHER DAMAGE  
INCLUDED A SNOWMOBILE TRAILER BLOWN INTO A TREE.

0130 AM TSTM WND DMG FOREST LAKE 45.28N 92.99W  
08/08/2010 WASHINGTON MN TRAINED SPOTTER

TIME ESTIMATED. SEVEN INCH DIAMETER TREE BRANCH SEVERED.

### Evening of August 8th

PRELIMINARY LOCAL STORM REPORT...SUMMARY  
NATIONAL WEATHER SERVICE TWIN CITIES/CHANHASSEN MN  
1218 AM CDT MON AUG 09 2010

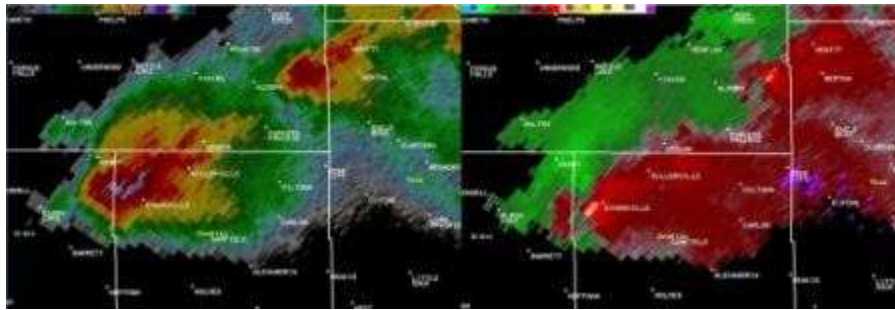
..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	....MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0623 PM 08/08/2010	FUNNEL CLOUD	1 NW BUFFALO WRIGHT MN	45.19N 93.89W TRAINED SPOTTER
0630 PM 08/08/2010	FUNNEL CLOUD	MONTROSE WRIGHT MN	45.07N 93.91W TRAINED SPOTTER
	HAS GONE UP AND DOWN.		
0655 PM 08/08/2010	TSTM WND DMG	MAPLE GROVE HENNEPIN MN	45.11N 93.46W NWS EMPLOYEE
	TREE DAMAGE INCLUDING 2 TO 4 INCH DIAMETER BRANCHES DOWN AND A FEW 6 TO 8 INCH DIAMETER TREES DOWN. DAMAGE REPORTED NEAR INTERSECTION OF INTERSTATES 494 AND 694.		
0700 PM 08/08/2010	HEAVY RAIN M0.95 INCH	CHAMPLIN HENNEPIN MN	45.17N 93.39W TRAINED SPOTTER
	RAIN ENDED/MEASURED 0.95 IN 40 MINS.		
0705 PM 08/08/2010	TSTM WND DMG	BAYPORT WASHINGTON MN	45.02N 92.78W TRAINED SPOTTER
	8 INCH DIAMETER TREES DOWN.		
0706 PM 08/08/2010	HAIL M0.88 INCH	OAKDALE WASHINGTON MN	44.99N 92.97W LAW ENFORCEMENT
0708 PM 08/08/2010	TSTM WND GST M62.00 MPH	AFTON WASHINGTON MN	44.90N 92.82W TRAINED SPOTTER
0726 PM 08/08/2010	FUNNEL CLOUD	6 W RIVER FALLS PIERCE WI	44.86N 92.74W TRAINED SPOTTER
	DESCENDED AND ROSE AGAIN.		
0737 PM 08/08/2010	TSTM WND DMG	1 SE RIVER FALLS PIERCE WI	44.84N 92.60W TRAINED SPOTTER
	18 INCH DIAMETER TREE DOWN.		
0819 PM 08/08/2010	HEAVY RAIN M0.94 INCH PCPN FELL IN 37 MINUTES.	RIVER FALLS PIERCE WI	44.86N 92.62W TRAINED SPOTTER

## EF-1 Tornado in Douglas County

The National Weather Service determined that an EF-1 tornado touched down in Grant County, MN and produced intermittent damage eastward into Douglas County on Saturday, August 7<sup>th</sup>.

- Estimated Wind Speed: 85 to 95 mph
- Location: From about 1 mile north of Wendell to near Evansville.
- Path Length: around 19 miles
- Timing: approximately 7:40 PM to 8:15 PM CDT

The storm produced mainly tree damage in Douglas County



8:09 pm NWS Chanhassen Radar Reflectivity and Storm Relative Motion Image Tornadic storm is just west of Evansville, while a storm producing a funnel cloud is a few miles west southwest of Bertha.

## EF-0 Tornado in Polk County

The National Weather Service determined that an EF-0 tornado touched down in Polk County, WI on Saturday, August 7<sup>th</sup>.

- Estimated Wind Speed: 80 to 85 mph
- Location: From 2 miles west of Bone Lake to 1 mile south of Bone Lake
- Path Length: approximately 2 miles
- Maximum Path Width: around 100 yards
- Timing: the tornado touched down at approximately 11:40 PM CDT, and was on the ground for around 3 minutes.

There was extensive tree damage through the tornado path, including hundreds of trees being snapped or uprooted. The strongest damage included a 3-foot diameter pine tree being snapped, and multiple 2-foot diameter trees being snapped and uprooted. In addition, structural damage included shingles being blown off of a roof, windows in houses and cars being blown out and a wooden trailer frame being lodged in a tree.

## Downburst Damage in Barron County

The National Weather Service determined that a downburst caused substantial tree damage in Barron County, WI, near the city of Cumberland, on Saturday, August 7<sup>th</sup>.

Estimated Wind Speed: 70 to 80 mph

Location: damage areas included 1 mile northwest of Cumberland and 2.5 miles north of Cumberland

Timing: Around 11:57 PM CDT

There was extensive tree damage 1 mile northwest of Cumberland, which included several large trees being uprooted. A roof was completely ripped off a large out-building approximately 2.5 miles north of Cumberland

### **EF-1 Tornado in Barron County**

The National Weather Service determined that an EF-1 tornado touched down in Barron County, WI on Saturday, August 7<sup>th</sup>.

Estimated Wind Speed: 90 to 95 mph

Location: from 4.5 miles north-northeast of Cumberland to 6 miles northeast of Cumberland.

Path Length: around 3.5 miles

Maximum path width: approximately 125 yards

Timing: The tornado touched down around 11:57 PM CDT, and was on the ground for 4-5 minutes.

The most serious structural damage was the demolition of a barn and a garage. There was extensive tree damage throughout the path of the tornado, including hundreds of trees that were snapped or uprooted. A 4-foot diameter tree was snapped, and multiple 1-foot and 2-foot diameter trees were snapped and uprooted.